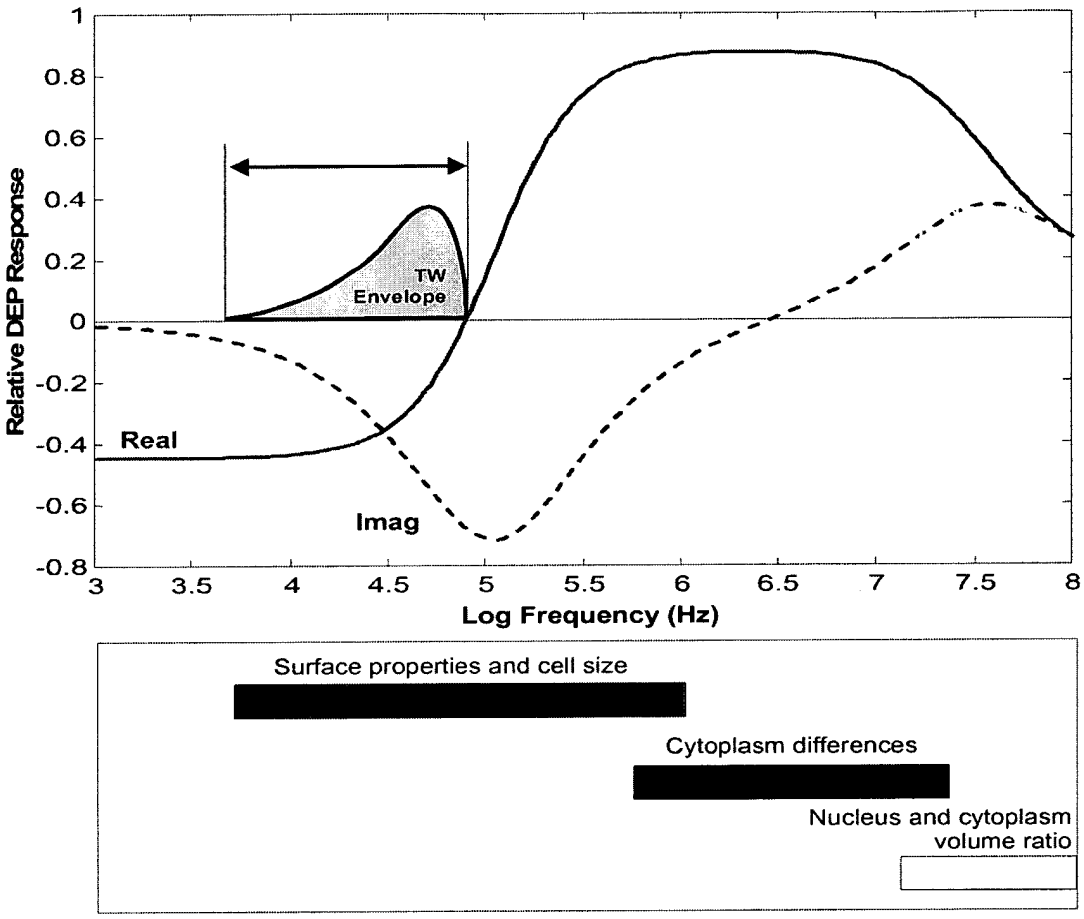

FIGURE 1

Dielectrophoretic spectrum for a human B-lymphocyte (medium 15mS/m). Relative frequency regions where differing cell properties dominate the response are shown.

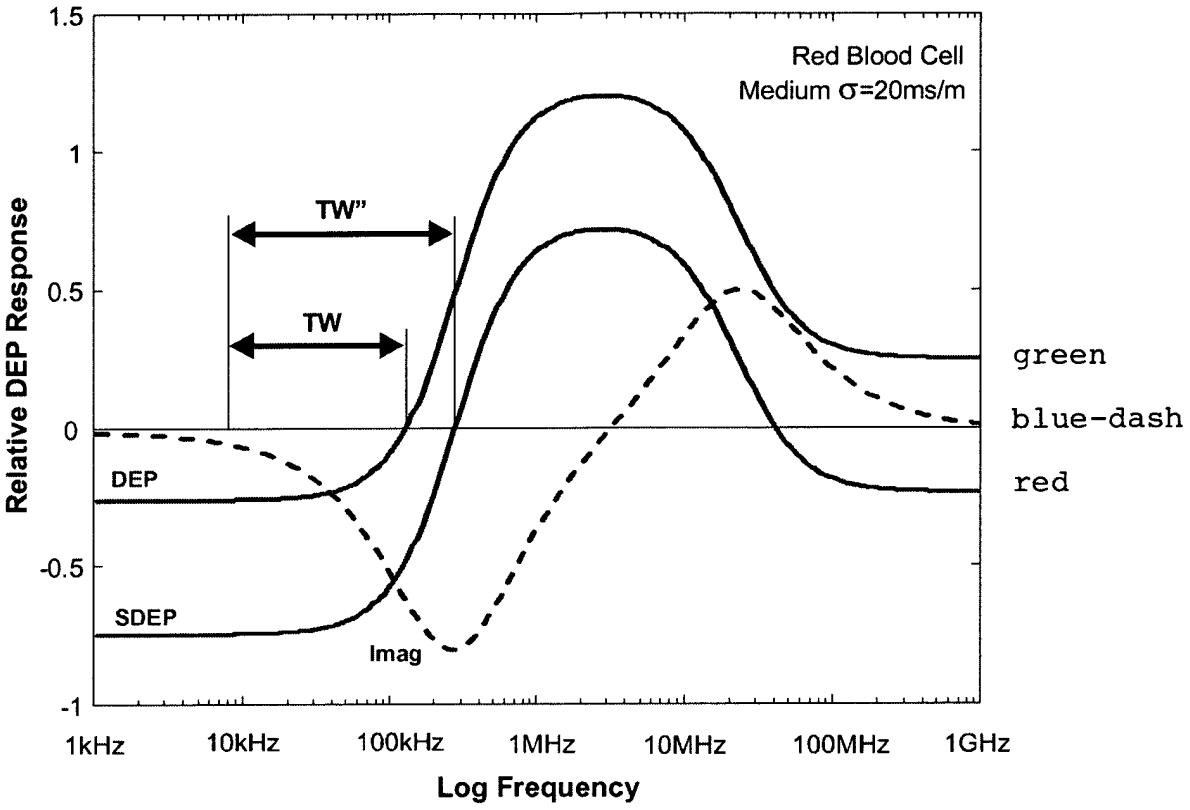

FIGURE 2

Dielectrophoretic spectrum. Blue-dash plot indicates the imaginary force $F_{DEP}(Im)$, the green plot is the real part of the DEP force $F_{DEP}(Re)$, with the red plot showing the superposition $sF_{DEP}(Re)$. The travelling wave window is seen to be extended from TW to TWD" as a result of superposition. The response shown is generated using a dielectric shell model of a red blood cell in a medium of 20mS/m and used for illustration.

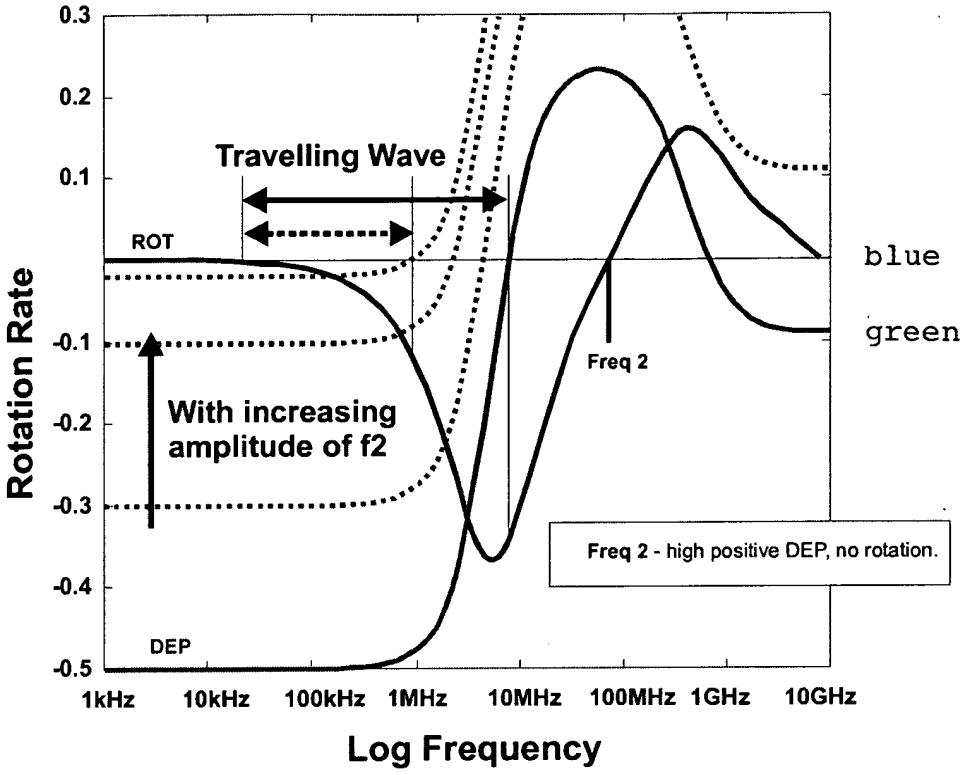

FIGURE 3

Dielectrophoretic spectrum, with superposition narrowing the TWD window.